

## Chapter 10

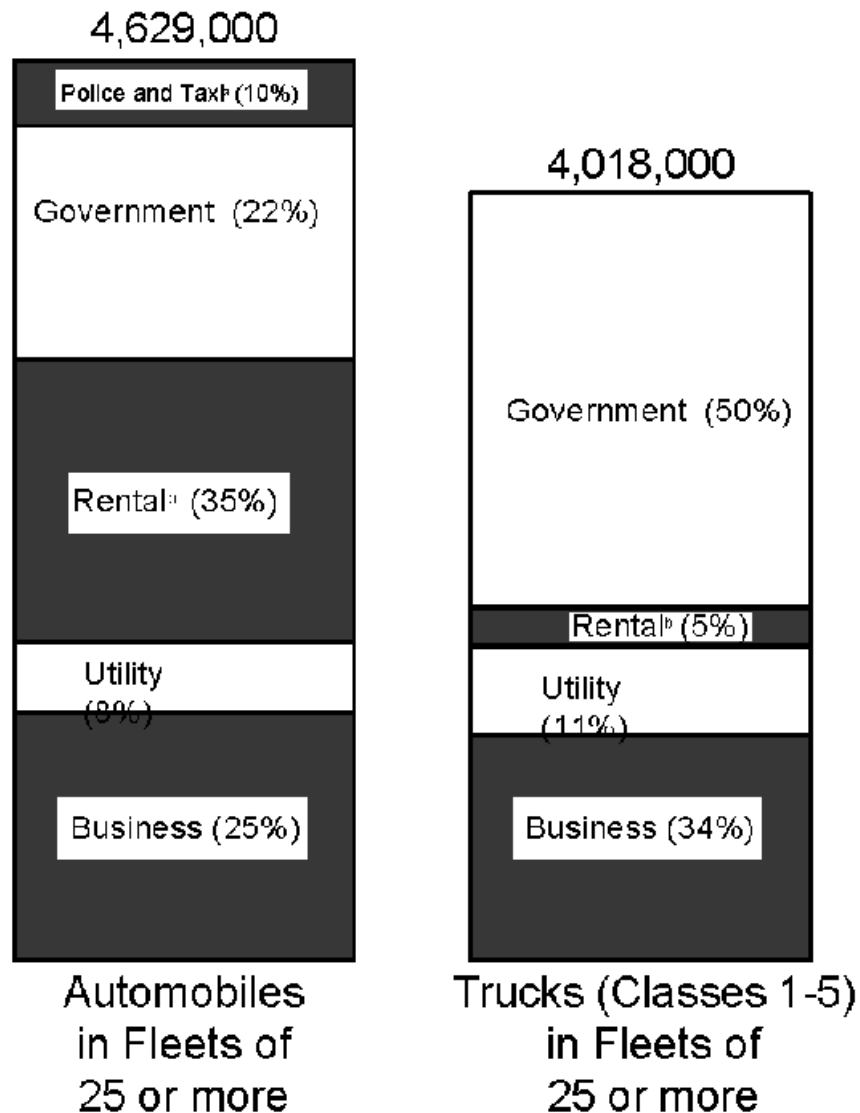
### Fleet Vehicles and Characteristics

Summary Statistics from Tables/Figures in this Chapter

Source		
Figure 10.1	Fleet automobiles, 1999	4,629,000
Figure 10.1	Fleet Class 1-5 Trucks, 1999	4,018,000
Table 10.4	Average annual miles per automobile	
	<i>Business fleets</i>	29,200
	<i>Utility fleets</i>	14,500
	<i>Government fleets</i>	13,700
Table 10.5	Federal Government vehicles, FY 1997	548,978
	<i>Automobiles</i>	113,460
	<i>Buses</i>	6,048
	<i>Light trucks</i>	381,674
	<i>Medium trucks</i>	29,817
	<i>Heavy trucks</i>	17,979

*Significant changes have been made in recent years to fleet vehicle estimations. Newly available data improve the accuracy of fleet vehicle estimates but, at the same time, make it impossible to compare the data historically. Therefore, only the 1999 data are presented here.*

**Figure 10.1. Fleet Vehicles in Service as of January 1, 1999**



**Source:**

Bobit Publishing Company, Automotive Fleet Research Department, *Automotive Fleet Factbook 1999*, Redondo Beach, CA, 1999. (Additional resources: [www.fleet-central.com](http://www.fleet-central.com))

**Note:**

Truck classes 1-5 are 19,500 lbs. and less.

<sup>a</sup>Taxi category includes vans.

<sup>b</sup>Rental category includes vans and sports utility vehicles under *automobiles*, not trucks.

*These are the top ten states in terms of fleets and fleet vehicles, according to Dwight's Energydata, Denver, CO. Autos and light trucks make up the largest share of fleet vehicles in each of the states. The average number of vehicles per fleet is the highest in Florida and California.*

**Table 10.1**  
**Top Ten States with Fleets of Ten Vehicles or More, 1999**

<i>States</i>	<i>Fleets of ten vehicles or more</i>	<i>Fleet vehicles</i>				<i>Total</i>	<i>Average vehicles per fleet<sup>1</sup></i>
		<i>Autos</i>	<i>Trucks (class 1-2)</i>	<i>Trucks (class 3-5)</i>	<i>Trucks (class 6-8)</i>		
<i>California</i>	12,005	474,627	443,869	205,883	321,332	1,457,716	121
<i>Texas</i>	8,851	260,885	262,270	107,599	247,960	887,565	100
<i>New York</i>	6,706	227,144	191,415	78,215	182,015	685,495	102
<i>Pennsylvania</i>	5,973	166,880	148,086	52,840	179,086	552,865	93
<i>Florida</i>	5,986	233,209	208,919	88,230	199,408	735,752	123
<i>Illinois</i>	5,653	178,939	149,886	76,441	179,770	590,689	104
<i>Ohio</i>	5,418	177,830	130,846	60,350	163,627	538,071	99
<i>Michigan</i>	3,945	149,536	103,684	53,670	104,373	415,208	105
<i>New Jersey</i>	3,919	139,327	121,717	35,172	119,839	419,974	107
<i>North Carolina</i>	3,821	102,047	109,667	38,342	142,354	396,231	104

**Source:**

Bobit Publishing Company, *Automotive Fleet Industry Statistics* web site:

[www.fleet-central.com /AF/Resources/Stats/chart3.htm](http://www.fleet-central.com/AF/Resources/Stats/chart3.htm). Original data source: Dwight's Energydata, Denver, CO. (Additional resources: [www.fleet-central.com/AF](http://www.fleet-central.com/AF))

*These fleet data, which were generated from a 1991–92 ORNL study, are still the latest available data of this kind.*

**Table 10.2**  
**Fleet Vehicle Composition by Vehicle Type, 1991**  
(percent)

<i>Fleet type</i>	<i>Cars</i>	<i>Light trucks<sup>a</sup> and vans</i>	<i>Medium trucks<sup>b</sup></i>	<i>Heavy trucks<sup>c</sup></i>	<i>Total</i>
<i>Business</i>	24.2%	21.1%	45.8%	8.9%	100%
<i>Utility</i>	22.6%	39.0%	15.0%	23.4%	100%
<i>Government</i>	48.5%	42.8%	6.8%	1.8%	100%

**Table 10.3**  
**Average Length of Time Fleet Vehicles are Kept Before Sold to Others, 1991**  
(months)

	<i>Business</i>	<i>Utility</i>	<i>Government</i>
<i>Cars</i>	35	68	81
<i>Light trucks<sup>a</sup></i>	56	60	82
<i>Medium trucks<sup>b</sup></i>	83	86	96
<i>Heavy trucks<sup>c</sup></i>	103	132	117

**Table 10.4**  
**Average Annual and Daily Vehicle-Miles of Travel for Fleet Vehicles, 1991**

<i>Vehicle type</i>	<i>Business</i>		<i>Utility</i>		<i>Government</i>	
	<i>Miles/year (thousands)</i>	<i>Miles/day @250 days/year</i>	<i>Miles/year (thousands)</i>	<i>Miles/day @250 days/year</i>	<i>Miles/year (thousands)</i>	<i>Miles/day @250 days/year</i>
<i>Cars</i>	29.2	117	14.5	58	13.7	55
<i>Light trucks<sup>a</sup></i>	26.6	106	17.5	70	13.9	56
<i>Medium trucks<sup>b</sup></i>	17.5	70	11.8	47	11.9	48
<i>Heavy trucks<sup>c</sup></i>	64.4	258	13.8	55	10.7	43

**Source:**

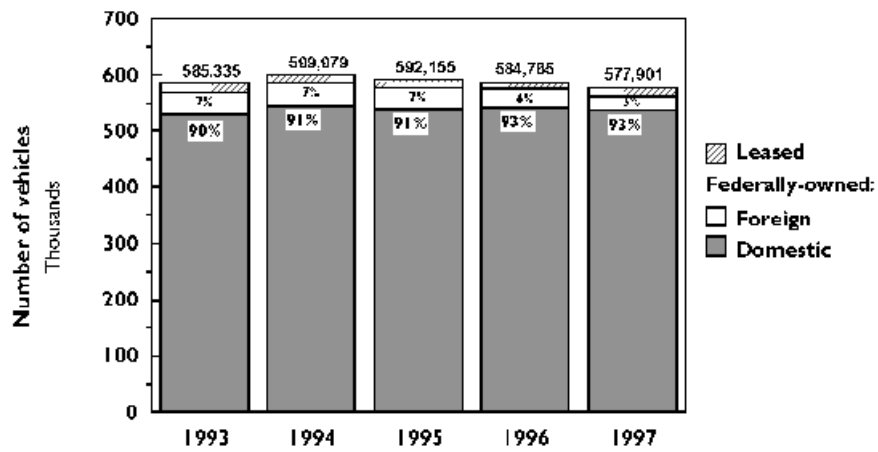
Miaou, S. P., et. al., *Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices*, (ORNL-6717), Oak Ridge National Laboratory, Oak Ridge, TN, May 1992.  
(Additional resources: [www-cta.ornl.gov](http://www-cta.ornl.gov))

<sup>a</sup>In this study, light trucks are <8,500 lbs gross vehicle weight.

<sup>b</sup>In this study, medium trucks are between 8,500–26,000 lbs gross vehicle weight.

<sup>c</sup>In this study, heavy trucks are >26,000 lbs gross vehicle weight.

**Figure 10.2. Worldwide Federal Inventory, 1992–97**

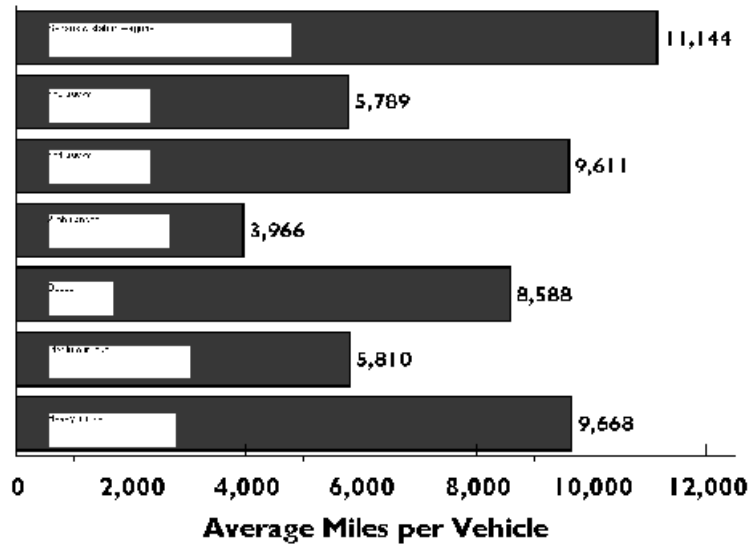


**Source:**

U.S. General Services Administration, Federal Vehicle Policy Division, FY 1997 Federal Fleet Report, Washington, DC, 1999, Tables 1 and 12.

(Additional resources: [policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm](http://policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm))

**Figure 10.3. Average Miles per Federal Vehicle by Vehicle Type, 1997**



**Source:**

U.S. General Services Administrations, Federal Vehicle Policy Division, FY 1997 Federal Fleet Report, Washington, DC, 1999, Table 5.

(Additional resources: [policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm](http://policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm))

**Table 10.5**  
**Federal Government Vehicles by Agency, Fiscal Year 1997<sup>a</sup>**

<i>Department or Agency</i>	<i>Autos</i>	<i>Buses</i>	<i>Light trucks<sup>b</sup></i>	<i>Medium trucks<sup>c</sup></i>	<i>Heavy trucks<sup>d</sup></i>	<i>Total</i>
<i>Department of Agriculture</i>	3,273	42	24,614	5,247	602	33,778
<i>Department of Commerce</i>	144	2	416	228	12	802
<i>Department of Education</i>	1	0	2	0	0	3
<i>Department of Energy</i>	784	164	3,606	919	794	6,267
<i>Department of Health &amp; Human</i>	89	7	326	147	58	627
<i>Department of Housing &amp; Urban Dev.</i>	3	0	1	0	0	4
<i>Department of Justice</i>	25,190	314	12,742	976	271	39,493
<i>Department of Labor</i>	19	1	144	14	3	181
<i>Department of State</i>	103	0	84	0	11	198
<i>Department of Interior</i>	1,374	80	9,160	3,506	1,420	15,540
<i>Department of Treasury</i>	10,960	18	3,760	307	96	15,141
<i>Department of Transportation</i>	30	16	411	96	67	620
<i>Department of Veterans Affairs</i>	470	120	1,036	243	115	1,984
<i>Environmental Protection Agency</i>	57	0	233	70	15	375
<i>Federal Communications Comm</i>	55	0	63	2	0	120
<i>Federal Emergency Mgmt Agency</i>	28	6	253	25	0	312
<i>General Services Administration<sup>e</sup></i>	54,263	2,932	88,808	3,636	3,707	153,346
<i>Natl Aeronautics &amp; Space Admin.</i>	103	43	806	326	75	1,353
<i>Small Business Administration</i>	115	0	0	0	0	115
<i>Tennessee Valley Authority</i>	427	0	1,012	999	226	2,664
<i>Others</i>	94	19	396	37	50	596
<b>CIVILIAN AGENCIES</b>	<b>97,582</b>	<b>3,764</b>	<b>147,873</b>	<b>16,778</b>	<b>7,522</b>	<b>273,519</b>
 <b>U.S. POSTAL SERVICE</b>	 <b>9,342</b>	 <b>6</b>	 <b>180,346</b>	 <b>9,293</b>	 <b>4,927</b>	 <b>203,914</b>
 <i>Department of the Air Force</i>	 2,591	 1,191	 22,679	 970	 2,348	 29,779
<i>Department of the Army</i>	124	26	247	163	122	682
<i>Department of the Navy</i>	2,845	677	22,756	1,379	2,340	29,997
<i>Other Defense Agencies</i>	283	25	1,988	110	116	2,522
<i>Corps of Engineers</i>	223	4	2,410	575	311	3,523
<i>U.S. Marine Corps</i>	470	355	3,375	549	293	5,042
<b>MILITARY AGENCIES</b>	<b>6,536</b>	<b>2,278</b>	<b>53,455</b>	<b>3,746</b>	<b>5,530</b>	<b>71,545</b>
 <b>TOTAL</b>	 <b>113,460</b>	 <b>6,048</b>	 <b>381,674</b>	 <b>29,817</b>	 <b>17,979</b>	 <b>548,978</b>

**Source:**

U.S. General Services Administration, *Federal Supply Service, FY 1997 Federal Fleet Report*, Washington, DC, 1999, Table 14. (Additional resources: [policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm](http://policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm))

<sup>a</sup> Federally-owned and commercially-leased vehicles.

<sup>b</sup> Less than 8,500 lbs GVWR. Includes ambulances.

<sup>c</sup> 8,501–23,999 lbs GVWR.

<sup>d</sup> 24,000 lbs. Or more GVWR.

<sup>e</sup> GSA Fleet vehicles.

**Table 10.6**  
**Federal Fleet Vehicle Acquisitions**  
**by Fuel Type, FY 1997<sup>a</sup>**

	<i>Vehicle acquisitions</i>
<i>Gasoline</i>	<i>14,097</i>
<i>Diesel</i>	<i>489</i>
<i>Natural gas</i>	<i>172</i>
<i>E-85</i>	<i>160</i>
<i>Electricity</i>	<i>139</i>
<i>Other</i>	<i>12</i>
<i>M-85</i>	<i>9</i>
<i>LPG</i>	<i>1</i>
<i>Biodiesel</i>	<i>0</i>
<i>Hydrogen</i>	<i>0</i>
<i>Total</i>	<i>15,079<sup>a</sup></i>

**Source:**

U.S. General Services Administrations, *Federal Vehicle Policy Division, FY 1997 Federal Fleet Report*, Washington, DC, 1999, Table 18.  
 (Additional resources: [policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm](http://policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm))

**Table 10.7**  
**Fuel Consumed by Federal Government Fleets, FY 1997<sup>a</sup>**

	<i>Thousand gasoline equivalent gallons</i>
<i>Gasoline</i>	<i>280,051</i>
<i>Diesel</i>	<i>64,834</i>
<i>NG</i>	<i>4,076</i>
<i>Electricity</i>	<i>287</i>
<i>Biodiesel</i>	<i>186</i>
<i>Methanol</i>	<i>151</i>
<i>M-85</i>	<i>137</i>
<i>LPG</i>	<i>37</i>
<i>Ethanol</i>	<i>19</i>
<i>Total</i>	<i>349,780<sup>a</sup></i>

**Source:**

U.S. General Services Administrations, *Federal Vehicle Policy Division, FY 1997 Federal Fleet Report*, Washington, DC, 1999, Table 6.  
 (Additional resources: [policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm](http://policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm))

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<sup>a</sup>These data are reported under new requirements for FY 1997. Data for some agencies may be missing or incomplete.

*The Energy Policy Act of 1992 (EPACT) set alternative fuel vehicle acquisition requirements for Federal and State Governments, fuel providers and the private sector. Additional rule making has adjusted the original purchase requirements. State government and fuel providers requirements began in 1997.*

**Table 10.8**  
**Energy Policy Act Purchase Requirements of Light Alternative Fuel Vehicles**

<i>Year</i>	<i>Federal</i>	<i>State</i>	<i>Fuel providers</i>	<i>Private<sup>a</sup></i>
1993	5,000	-	-	-
1994	7,500	-	-	-
1995	10,000	-	-	-
1996	25%	-	-	-
1997	33%	10%	30%	-
1998	50%	15%	50%	-
1999	75%	25%	70%	-
2000	75%	50%	90%	-
2001	75%	75%	90%	-
2002	75%	75%	90%	20%
2003	75%	75%	90%	40%
2004	75%	75%	90%	60%
2005	75%	75%	90%	70%
2006–on	75%	75%	90%	70%

**Source:**

*Final rule for the alternative fuels transportation programs, Federal Register, Vol. 61, p. 10622, March 14, 1996.*

*Private alternative fueled vehicle acquisition requirements for private and local government fleets, Federal Register, vol. 62, p. 19701, April 23, 1997.*

**Note:**

*The Department of Energy has provided an Alternative Fuel Vehicles Acquisitions and Credits Database on the Internet to provide fleet managers with a convenient way to report their compliance with this mandate. ([www.ott.doe.gov/credits](http://www.ott.doe.gov/credits))*

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<sup>a</sup>The Department of Energy is presently considering implementation of private and municipal fleet rule making.